



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,780	12/17/2001	Peter Pal Boda	04770.00027	4424

22908 7590 01/21/2004

BANNER & WITCOFF, LTD.
TEN SOUTH WACKER DRIVE
SUITE 3000
CHICAGO, IL 60606

EXAMINER

TRAN, TUAN A

ART UNIT PAPER NUMBER

2682

DATE MAILED: 01/21/2004

13

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/015,780

Applicant(s)

BODA ET AL.

Examiner

Tuan A Tran

Art Unit

2682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-55 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-55 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 2-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (5,991,737) in view of Yuen (5,812,931).

Regarding claims 2, 5, 16-17, 24-25 and 51, Chen discloses a call server 22, comprising: a processor 36; memory 34 for storing data comprising a database that correlates information identifying a plurality of broadcast program to information for contacting each of the plurality of broadcast programs (See fig. 2 and col. 4 lines 41-60) and a mobile device 24, inherently comprising a processor. Both of the call server 22 and the mobile device 24 inherently comprise computer readable instructions that, when executed by the processor 36 of the call server and the processor of the mobile device 24, cause the call server 22 and the mobile device 24 to perform a method for establishing a wireless telephony connection (See fig. 1), comprising the steps of: receiving from the mobile device 24 a first request to establish a connection, the first request comprising a current condition of a dynamic variable wherein the dynamic variable represents a current broadcast channel to which the mobile device is tuned and additional information about the request (See figs. 1-2 and col. 3 lines 21-43, col. 5 lines

Art Unit: 2682

1-15); querying the database based on the dynamic variable to retrieve information for contacting a broadcast program corresponding to the dynamic variable (See figs. 1-2 and col. 5 lines 8-16); performing hand-shaking with a device 12, 14 associated with the broadcast program (See figs. 1-2 and col. 4 lines 24-29); and establishing a connection between the mobile device 24 and the device 12, 14 associated with the broadcast program (See figs. 1-2 and col. 3 lines 11-16, col. 3 line 65 to col. 4 line 8). However, Chen does not mention the steps of sending a connection request to the device associated with the broadcast program and receiving a connection response from the device associated with the broadcast program, and the connection between the mobile device and the device associated with the broadcast program is a two-way wireless connection. Yuen teaches a two-way interactive television system wherein a two-way wireless connection is established between an end user and a broadcast station (See figs. 1-3 and col. 2 line 65 to col. 3 line 7, col. 3 line 61 to col. 4 line 22). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the Yuen's teaching in modifying the Chen's system particularly the connection between the mobile device and the device associated with the broadcast program for the advantage of allowing the user to access new information via the established interactive link as well as eliminating a need of creating a new RF link between the user and the broadcast center. Further, since Chen discloses the hand-shaking process between the call server and the device associated with the broadcast program, therefore it would be obvious to establish the steps of sending request and receiving response either in one direction or both (automatically or manually) between

Art Unit: 2682

the call server and the device associated with the broadcast program in order to enhance the effectiveness of information exchange between the call server and the device associated with the broadcast program.

Claims 9-10, 33 and 45 are rejected for the same reasons as set forth in claims 2 and 5, as method.

Regarding claims 3-4, Chen & Yuen disclose as cited in claim 2. Chen further discloses the contact information comprises a telephone number (See col. 3 lines 35-38). However, Chen & Yuen do not mention that the access information comprises a URL and the connection between the mobile device and the device associated with the broadcast program is a telephony connection or a data network connection. Since Chen discloses the call server 22 can receive a request from the mobile device through World Wide Web (See col. 4 line 66 to col. 5 line 7) and URL is well known in the art, therefore it would be obvious to have the access information included the URL in order to exchange information properly. Also, since Chen discloses the device 12, 14 associated with the broadcast program transmits broadcasts to the mobile device 24 in receivable forms (See col. 3 lines 11-16, col. 4 lines 1-8) and telephony and data network connections are well known in the art for transferring information, therefore it would have been obvious to use telephony or data network connections in order to expand the capability of the system to various types of spectrum.

Claim 11 and 46-47 are rejected for the same reasons as set forth in claims 3-4, as method.

Claims 19 and 27 are rejected for the same reasons as set forth in claim 3.

Art Unit: 2682

Regarding claims 6 and 54, Chen & Yuen disclose as cited in claim 2. The connection response inherently comprises a delay time defined by the device associated with the broadcast program and the computer readable instructions further inherently comprises the step of waiting for the delay time before performing the step of establishing a connection between the mobile device and the device associated with the broadcast program in order to allow the receiving end (the device associated with the broadcast program) sufficient time to process and execute the request properly.

Regarding claim 7, Chen & Yuen disclose as cited in claim 2. Chen further discloses the step of receiving from a mobile device 24 as first request as text message (See col. 4 line 66 to col. 5 line 7).

Claims 23 and 31 are rejected for the same reasons as set forth in claim 7

Claim 15 is rejected for the same reasons as set forth in claim 7, as method.

Regarding claim 8, Chen & Yuen disclose as cited in claim 7. However, Chen & Yuen do not mention that the request is a SMS message. Since SMS message is well known in the art, therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to send a request as a SMS message for the advantage of enhancing the application of the system comprising the mobile device and the call server.

Claims 32 and 35 are rejected for the same reasons as set forth in claim 8.

Claim 34 is rejected for the same reasons as set forth in claim 8, as method.

Art Unit: 2682

Regarding claims 12-13, Chen & Yuen disclose as cited in claim 10. Chen further discloses the current broadcast comprises an advertisement or a call-in program (See col. 3 lines 28-43, col. 4 lines 50-54).

Claims 20-21 and 28-29 are rejected for the same reasons as set forth in claims 12-13.

Regarding claim 14, Chen & Yuen disclose as cited in claim 9. Chen further discloses the step of receiving from the mobile device 24 a first request comprises a verbal command (See col. 4 lines 63-66, col. 6 lines 3-6).

Claims 22 and 30 are rejected for the same reasons as set forth in claim 14.

Regarding claims 18, 26, 52 and 55, Chen & Yuen disclose as cited in claims 2, 16 and 24. However, they not mention the step of receiving connection information to establish a connection between the mobile device and the device associated with broadcast program or a rejection message when the request is rejected. Since Chen discloses the call server 22 sends feedback, acknowledgement, or a request for additional information to the mobile device 24 (See col. 4 lines 18-24), therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the step of receiving connection information to establish a connection or receiving a rejection message when the request is rejected for the advantage of alerting the users about the situation so they can have appropriate actions taken.

Regarding claims 36-44, Chen & Yuen disclose as cited in claims 2, 16 and 24. Chen further discloses the additional information comprises user information

Art Unit: 2682

corresponding to a user of the mobile terminal or a summary of an intended discussion topic or location information (See col. 5 lines 1-15).

Claims 48-50 are rejected for the same reasons as set forth in claims 36-44, as method.

Regarding claim 53, Chen & Yuen disclose as cited in claim 2. However, they do not mention the step of existing the connection between the mobile device and the device associated with the broadcast program. The step of existing the connection is a common sense step, therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included this step for the advantage of reducing workload for the call server as well as saving spectrum for the call server to perform other operational tasks.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Hellhake (5,877,755) discloses interactive broadband multimedia system.
- Allibhoy et al. (5,805,155) discloses virtual assets in an interactive television cable system.
- Osborne (4,974,252) discloses interactive commercial/entertainment network.

Response to Arguments

Art Unit: 2682

Applicant's arguments with respect to claims 2-55 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan Tran** whose telephone number is **(703) 605-4255**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Vivian Chin**, can be reached at **(703) 308-6739**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Application/Control Number: 10/015,780

Page 9

Art Unit: 2682



Tuan Tran

AU 2682



VIVIAN CHIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

11/2/04